

1c960 U.S. PTO  
07/19/01

07-20-01

1c978 U.S. PTO  
09/09/01

Please type a plus sign (+) inside this box ☐

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	IN01158K
	First Inventor	SAKSENA, et al
	Title	NOVEL PEPTIDES AS NS3-SERINE PROTEASE INHIBITORS OF HEPATITIS C VIRUS
	Express Mail Label No.	EL40323751US

<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents.		<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application Washington, DC 20231	
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.		7. <input type="checkbox"/> CD-ROM or CD-R in duplicates, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statements verifying identity of above copies	
3. <input checked="" type="checkbox"/> Specification [Total Pages 186] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure		<b>ACCOMPANYING APPLICATION PARTS</b> 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement of Attorney (when there is an assignee) Power of Attorney 11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations 13. <input type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. <input checked="" type="checkbox"/> Other: PATENT APPLN COVER SHEET	
4. <input type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets ] 5. Oath or Declaration [Total Pages 44] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) (for continuations/divisional with Box 18 completed) i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No. : Prior application information: Examiner: Group Art Unit:			
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.			
<b>19. CORRESPONDENCE ADDRESS</b> <input checked="" type="checkbox"/> Customer Number or Bar Code Label 24265 or <input type="checkbox"/> Correspondence address below			
Name PALAIYUR S. KALYANARAMAN (Reg. No. ) 34,634			
Address			
City		State	Zip Code
Country		Telephone 908-298-5068	Fax 908-298-5388
Name (Print/Type) PALAIYUR S. KALYANARAMAN		Registration No. (Attorney/Agent) 34,634	
Signature		Date July 19, 2001	

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

09909012-071901

07/19/01

10960 U  
PTO

Express Mail Label No. EL403237571US

PTO/ISS/17 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 1070.00)

**Complete if Known**

Application Number	To Be Assigned
Filing Date	July 19, 2001
First Named Inventor	SAKSENA, et al
Examiner Name	To Be Assigned
Group Art Unit	To Be Assigned
Attorney Docket No.	IN01158K

**METHOD OF PAYMENT**

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number 19-0365  
Deposit Account Name Schering-Plough Corporation

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17  
☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	\$710.00
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	
SUBTOTAL (1) (\$ 710.00)					

**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
40	20	\$18.00	\$360.00
3	3	0	0
Multiple Dependent			

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$ 360.00)				

\*for number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (for reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Recording of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					
SUBTOTAL (3) (\$ )					

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ )

**SUBMITTED BY**

Name (Print/Type) PAIAYUR S. KALYANARAMAN Registration No. (Attorney/Agent) 34634 Telephone (908)298-5068  
Signature [Signature] Date July 19, 2001

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:

Typed or printed name \_\_\_\_\_ Date \_\_\_\_\_  
Signature \_\_\_\_\_

09909012-071901

**PATENT APPLICATION COVER SHEET**

**NOVEL PEPTIDES AS NS3-SERINE PROTEASE INHIBITORS  
OF HEPATITIS C VIRUS**

**INVENTORS:**

ANIL K. SAKSENA, a citizen of the United States, residing at 53 Beverly Road, Upper Montclair, New Jersey, 07043 U.S.A.

VIYYOOR MOOPIL GIRIJAVALLABHAN, a citizen of the United States, residing at 10 Maplewood Drive, Parsippany, New Jersey 07054, U.S.A.

STEPHANE L. BOGEN, a citizen of France, residing at 13 Dahlia Road, Somerset, New Jersey 08873, U.S.A.

RAYMOND G. LOVEY, a citizen of the United States, residing at 65 Woodside Avenue, West Caldwell, New Jersey 07006, U.S.A.

EDWIN E. JAO, a citizen of the United States, residing at 20 Crosswood Way, Warren, New Jersey 07059, U.S.A.

FRANK BENNETT, a citizen of the United Kingdom, residing at 419 Draco Road, Piscataway, New Jersey 08854, U.S.A.

JINPING L. MC CORMICK, a citizen of the United States, residing at 5 Pace Drive, Edison, New Jersey 08820, U.S.A.

HAIYAN WANG, a citizen of China, residing at 5 Cubberly Court, Cranbury, New Jersey 08512 U.S.A.

RUSSELL E. PIKE, a citizen of the United States, residing at R.D. #1, 31 Florence Street, Stanhope, New Jersey 07874, U.S.A.

YI-TSUNG LIU, a citizen of the United States, residing at 34 Alexandria Road, Morris Township, New Jersey 07960, U.S.A.

TIN-YAU CHAN, a citizen of Hong Kong, residing at 26 Barlow Road, Edison, New Jersey 08817, U.S.A.

ZHAONING ZHU, a citizen of People's Republic of China, residing at 34 Stonehedge Drive, East Windsor, New Jersey 08520, U.S.A.

ASHOK ARASAPPAN, a citizen of India, residing at 18 Larsen Court, Bridgewater, New Jersey 08807, U.S.A.

09909012.071901

09909012.071901

KEVIN X. CHEN, a citizen of the United States, residing at 44 Gill Lane, Apt. 1D, Edison, New Jersey 08830, U.S.A.

SRIKANTH VENKATRAMAN, a citizen of India, residing at 6 Tulip Drive, #3H, Fords, New Jersey 08863, U.S.A.

TEJAL PAREKH, a citizen of India, residing at 1885 Ednamary Way, Unit C, Mountain View, California 94040, U.S.A.

PATRICK A. PINTO, a citizen of the United States, residing at 34 Battle Ridge Road, Morris Plains, New Jersey 07950, U.S.A.

BAMA SANTHANAM, a citizen of India, residing at 10 Somerset Avenue, Bridgewater, New Jersey 08807, U.S.A.

F. GEORGE NJOROGÉ, a citizen of Kenya, residing at 11 Softwood Way, Warren, New Jersey 07059, U.S.A.

ASHIT K. GANGULY, a citizen of the United States, residing at 96 Cooper Avenue, Upper Montclair, New Jersey 07043, U.S.A.

HENRY A. VACCARO, a citizen of the United States, residing at 123 Somerset Avenue, South Plainfield, New Jersey 07080, U.S.A.

SCOTT JEFFREY KEMP, a citizen of the United States, residing at 7873 Avenida Navidad #263, San Diego, California 92130, U.S.A.

ODILE ESTHER LEVY, a citizen of the United States, residing at 5304 Ruelle De Mer, San Diego, California 92130, U.S.A.

MARGUERITA LIM-WILBY, a citizen of the United States, residing at 6333 Castenjon Drive, La Jolla, California 92037, U.S.A.

SUSAN Y. TAMURA, a citizen of the United States, residing at 2213 Calle Cacique, Santa Fe, New Mexico, 97505, U.S.A.

**ASSIGNEE:** Schering Corporation  
Corvas International, Ltd.

**PRIORITY APPLICATION: PROVISIONAL APPLICATION 60/220,107  
dated July 21, 2000**

"Express Mail" No. EL403237571US  
Date of Deposit: July 19, 2001

Palaiyur S. Kalyanaraman  
Schering-Plough Corporation  
Patent Department, K-6-1-1990  
2000 Galloping Hill Road  
Kenilworth, New Jersey 07033-0530  
Telephone (908) 298-5068  
Fax: (908) 298-5388

09909012-071901